**MAINLINE CONVEYANCE AND DETENTION NOTES**

***Unless Otherwise Noted***

1. Mainline pipe, culvert pipe and detention pipe must be as approved by Seattle Public Utilities (SPU) and as shown on the profile.

# VCP must be per Specification 9-05.5.

# DIP must be per Specification 9-05.3. Fittings must be cement mortar lined ductile iron. Joints must be rubber gasket, push-on or mechanical.

# RCP must be per Specification 9-05.2.

# Polypropylene pipe per Specification 9-05.17. Polypropylene pipe DETENTION, for pipe diameters 30” and greater must be triple wall (smooth interior), corrugated structural core, and smooth exterior) polypropylene pipe. All joints must be bell and spigot and conform to ASTM D3212.

1. Bedding must be Class B for all pipe, except ductile iron pipe that is less than 30-inch ID, which may be Class D. See Standard Plan No. 285 and Specification 7-17.3(1). Controlled density fill (CDF) must not be in contact with the pipe. Bedding material must be:

# Mineral Aggregate Type 22 for VCP and Polypropylene pipe.

# Mineral Aggregate Type 9 for RCP.

# Select Native or Mineral Aggregate Type 9 or Mineral Aggregate Type 22 for DIP.

1. Tees on new pipe less than 24" in diameter must be prefabricated. All new connections to existing mainlines or structures, or connections to new mainlines without prefabricated tees, must be per SPU Core Tap Procedures.
2. Detention pipe and flow control structures must be per Standard Plan No. 270, 270a and 272b.
3. All pipelines and appurtenances must be cleaned and tested after backfilling per Specification 7-17.3(3). Deflection testing of flexible pipe must be no less than 30 days after backfill and prior to paving per Specification 7-17.3(3)F. Television inspection of mainline must be per Specification 7-17.3(3)G.
4. Where a new pipe clears an existing or new utility by 6" or less, polyethylene plastic foam must be placed as a cushion between the utilities per Specification 1-07.17(2).
5. Pipe 12" diameter and larger to be abandoned must be filled with a pumpable, flowable cement slurry. See Specification 2-02.3(5).

**SIDE SEWER NOTES (For use with Mainline Conveyance and Detention Notes)**

***Unless Otherwise Noted***

# All work must conform to the Seattle Department of Construction and Inspections (SDCI) Director’s Rule 4-2011, Requirements for Design and Construction of Side Sewers.

# The permittee must maintain drainage and sewer service to private property during construction.

# Relay or repair of service drains/side sewers not shown for construction on the approved plan must be under separate permit from SDCI.

# When shown on the approved plan, relay existing service drains/side sewers to clear over or under the new utility and reconnect with shielded flexible repair couplings per specifications 7-17.3(2)E and 9-05.18 and as approved by a representative of the City of Seattle.

# Service drain/side sewer pipe must be of a material approved by a representative of the City of Seattle, from the following, in order of precedence:

# DIP when minimum clearances required in specification 1-07.17(2) are not met. DIP must be cement mortar lined ductile iron pipe per Specification 9-05.3. Joints must be rubber gasket, push-on or mechanical. Bedding must be Class D per specification 7-17.3(1)D.

# Match existing pipe material. Bedding must be Class B per Specification 7-17.3(1) for each pipe material.

# PVC pipe and fittings must be per ASTM D 3034, SDR35 (MIN), with rubber gasket joints or Schedule 40 per ASTM D1785 with solvent welded joints. Bedding must be Class B per specification 7-17.3(1)B.

# Service drains/side sewers must not be backfilled until the pipe has been inspected and approved and the slope, location and depth is recorded.

# The permittee is responsible for as-built record information for all work on service drains/side sewers.